

APPROVED		FIG.	
BY	CLASS	SUBCLASS	
DRAFTSMAN			

DOT 4384360

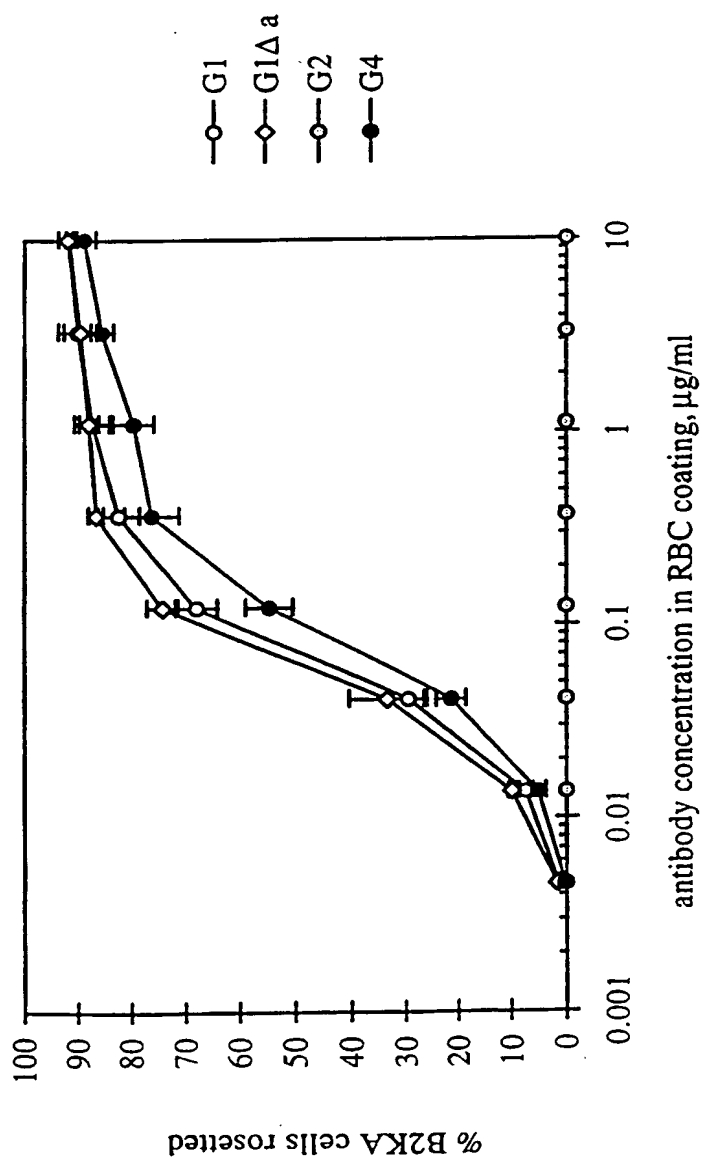
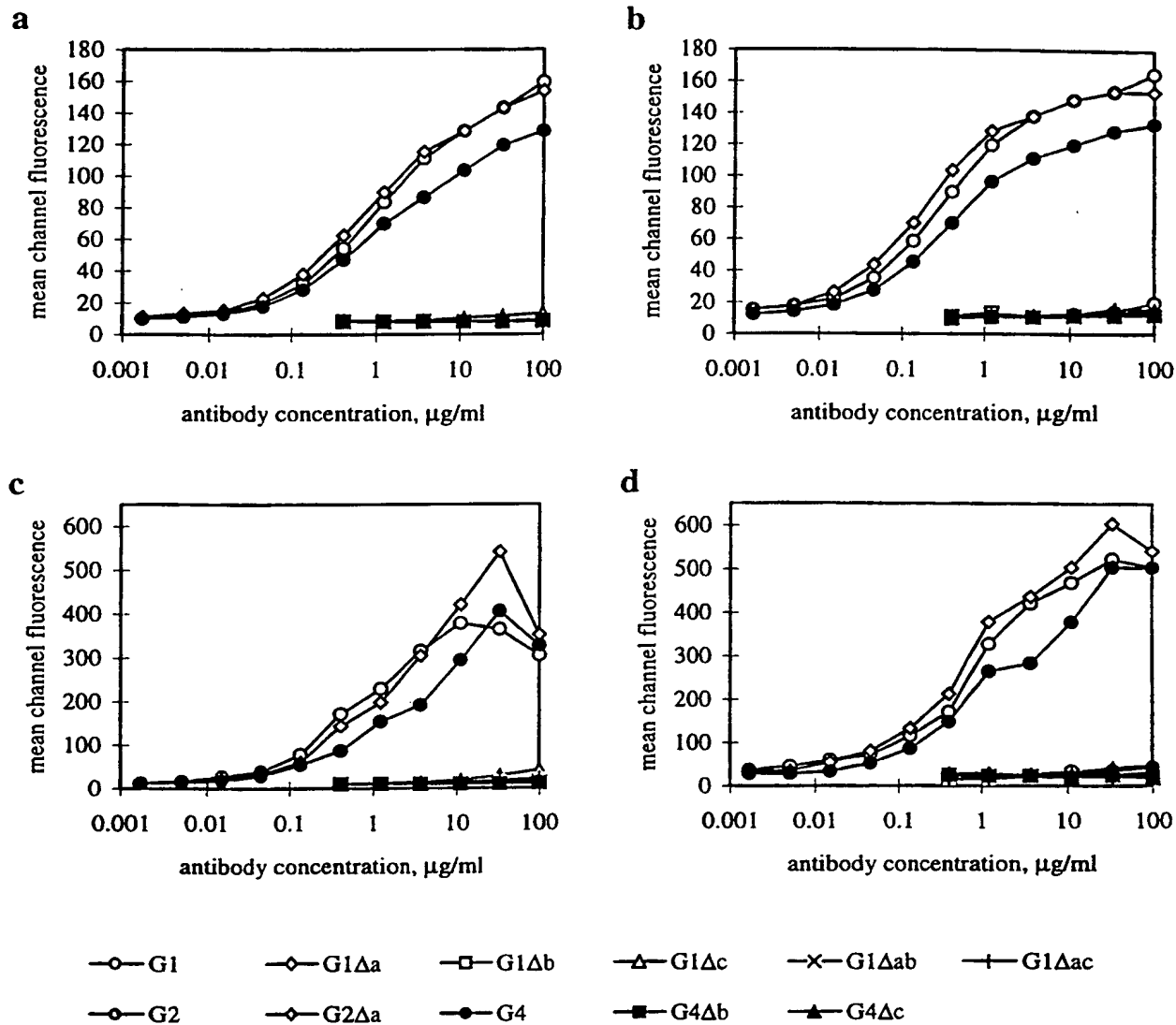


Figure 1

Figure 2



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[illegible]

Figure 3

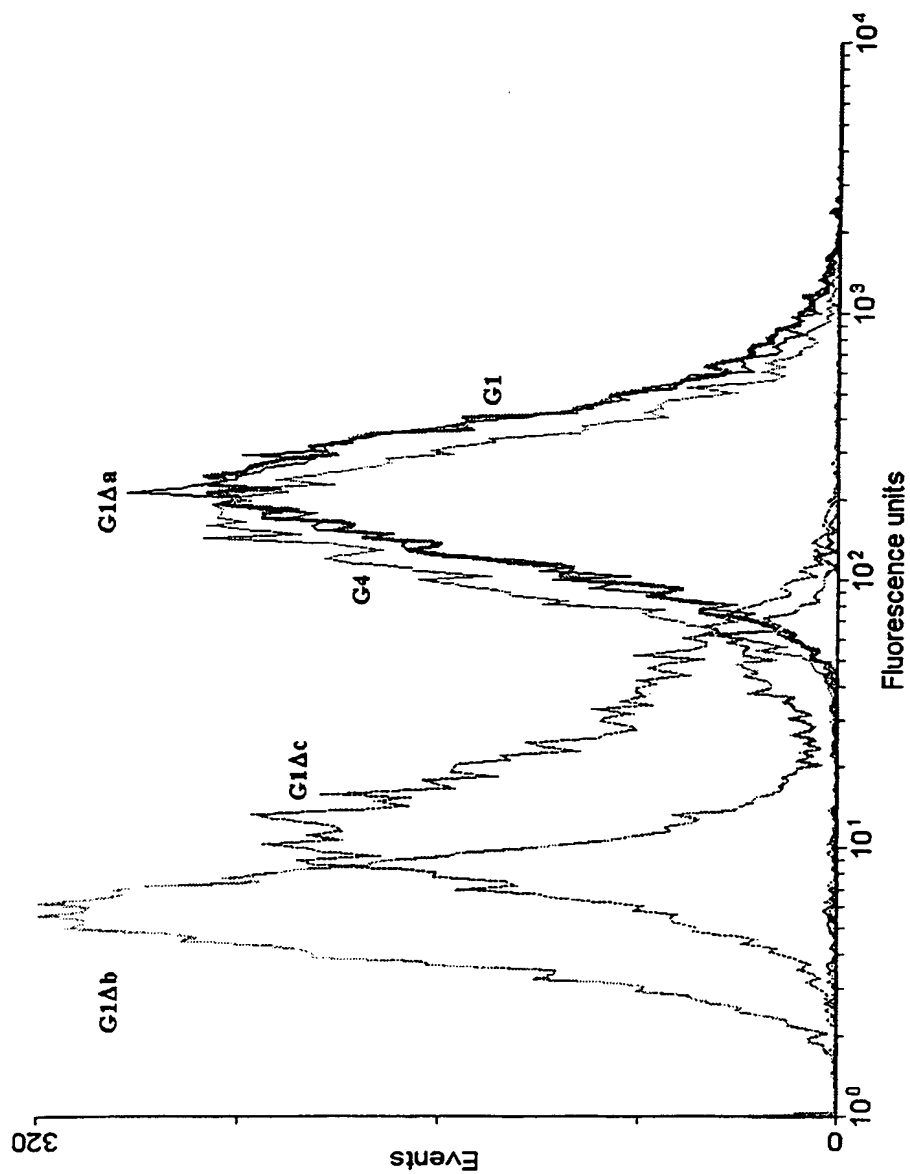


Figure 4

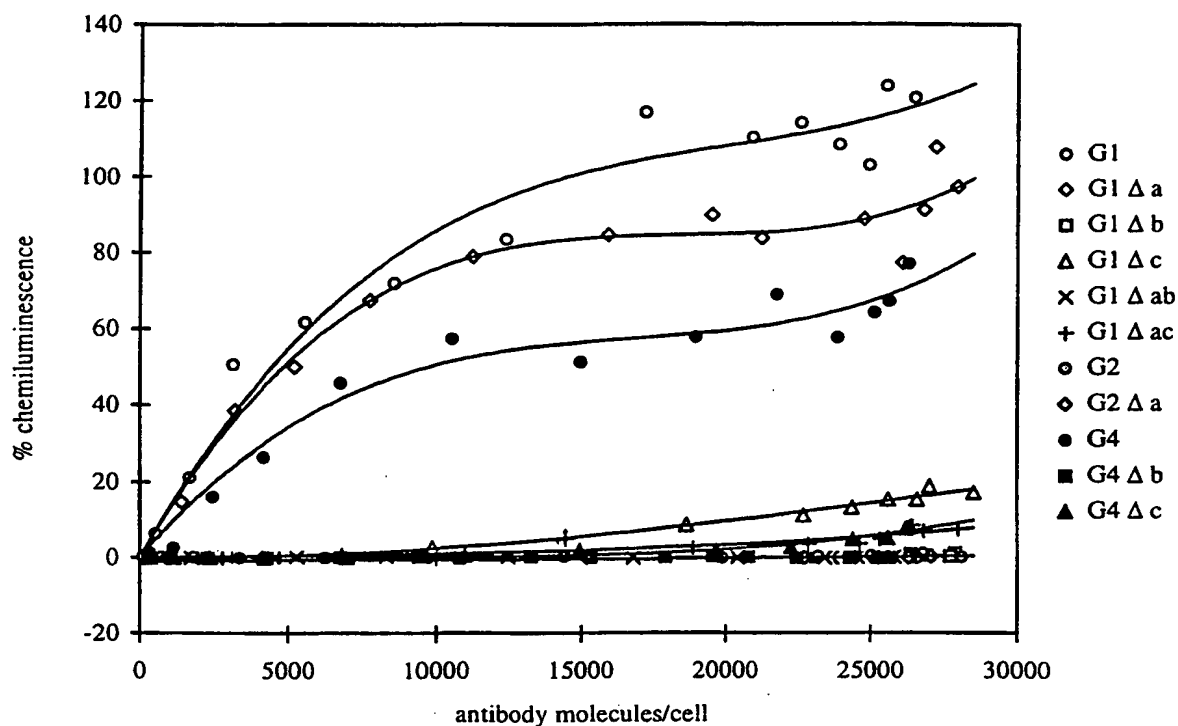


Figure 5

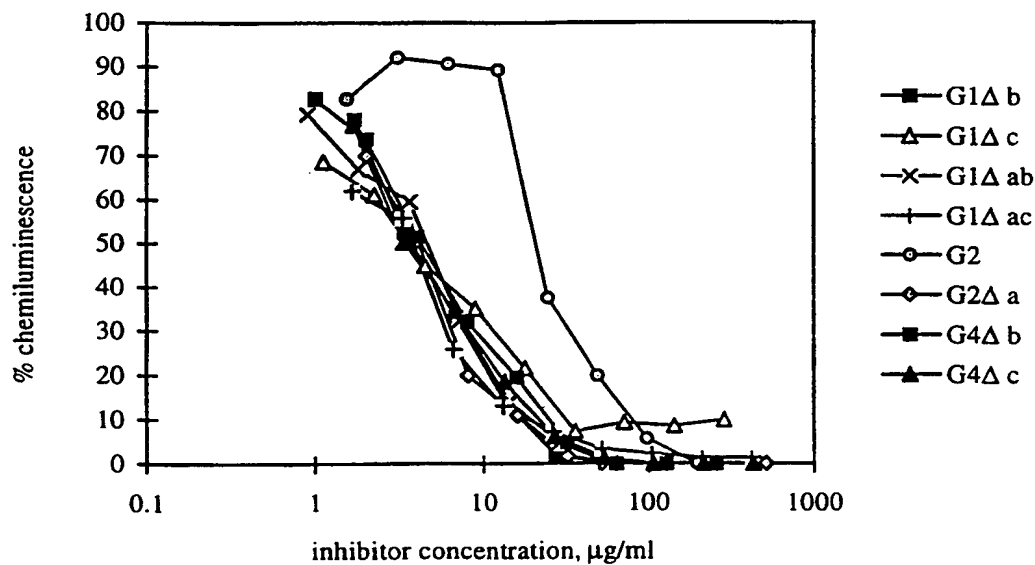


Figure 6

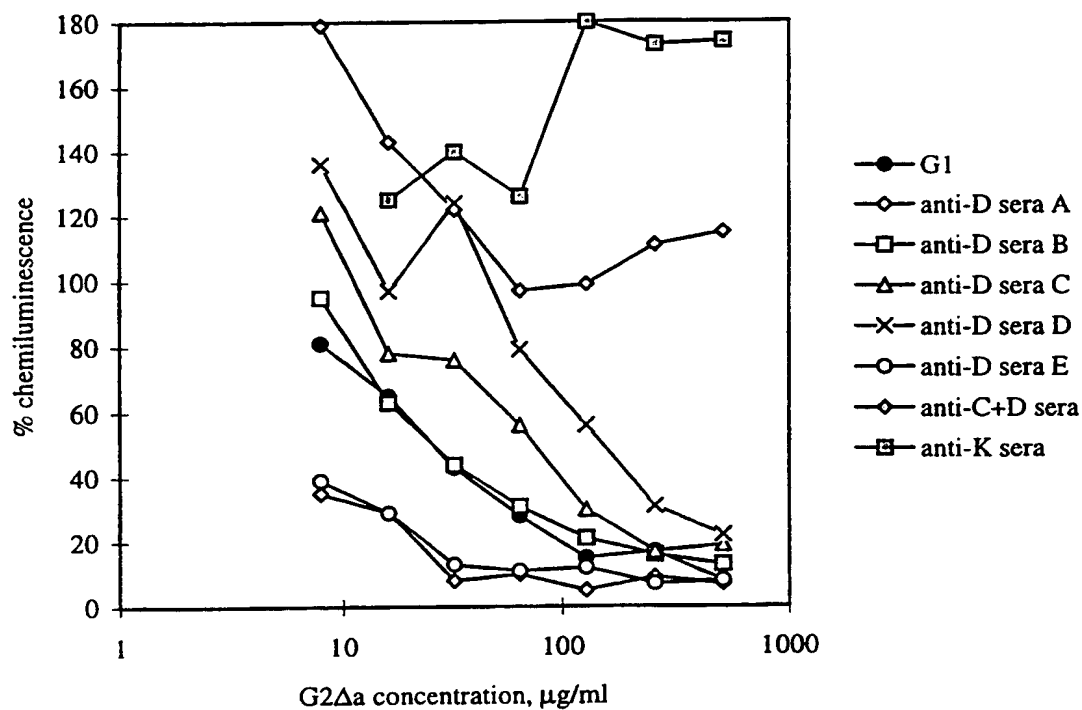


Figure 7

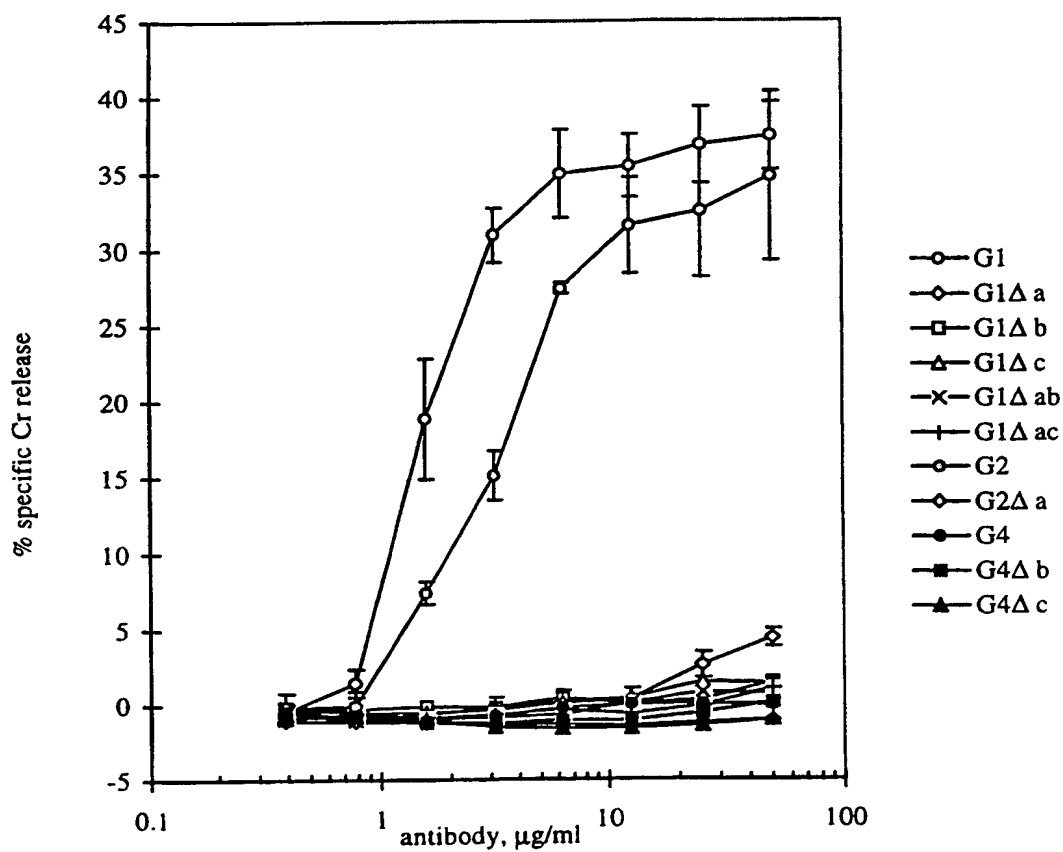


Figure 8

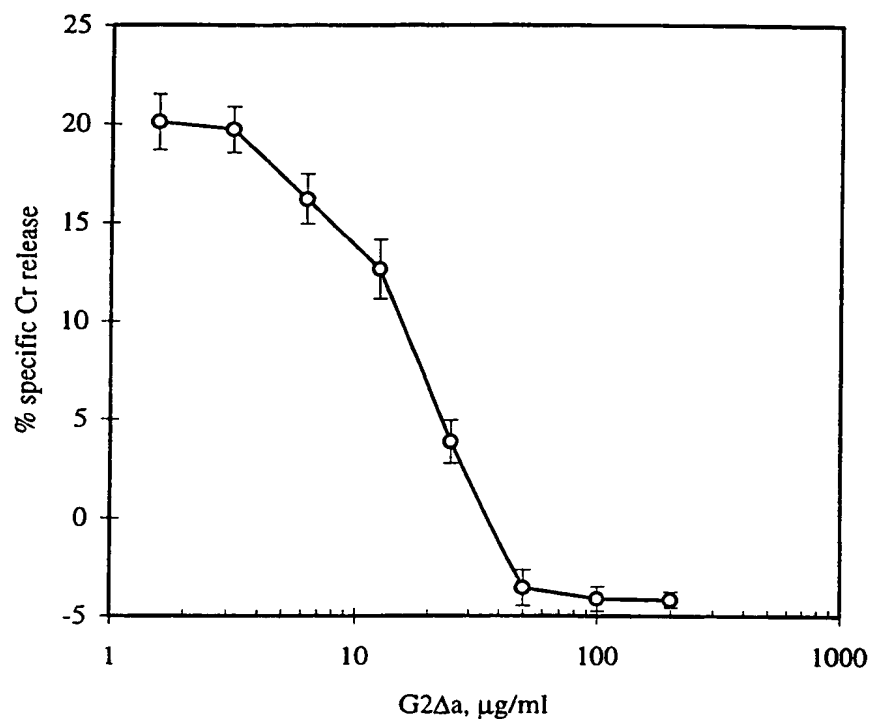


Figure 9

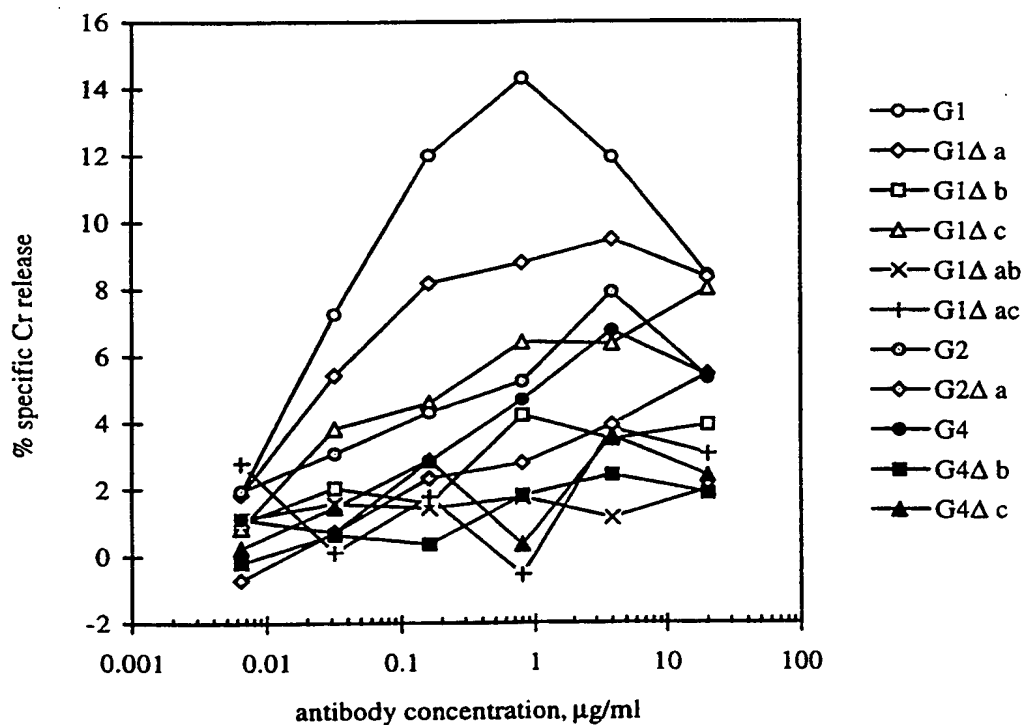


Figure 10a

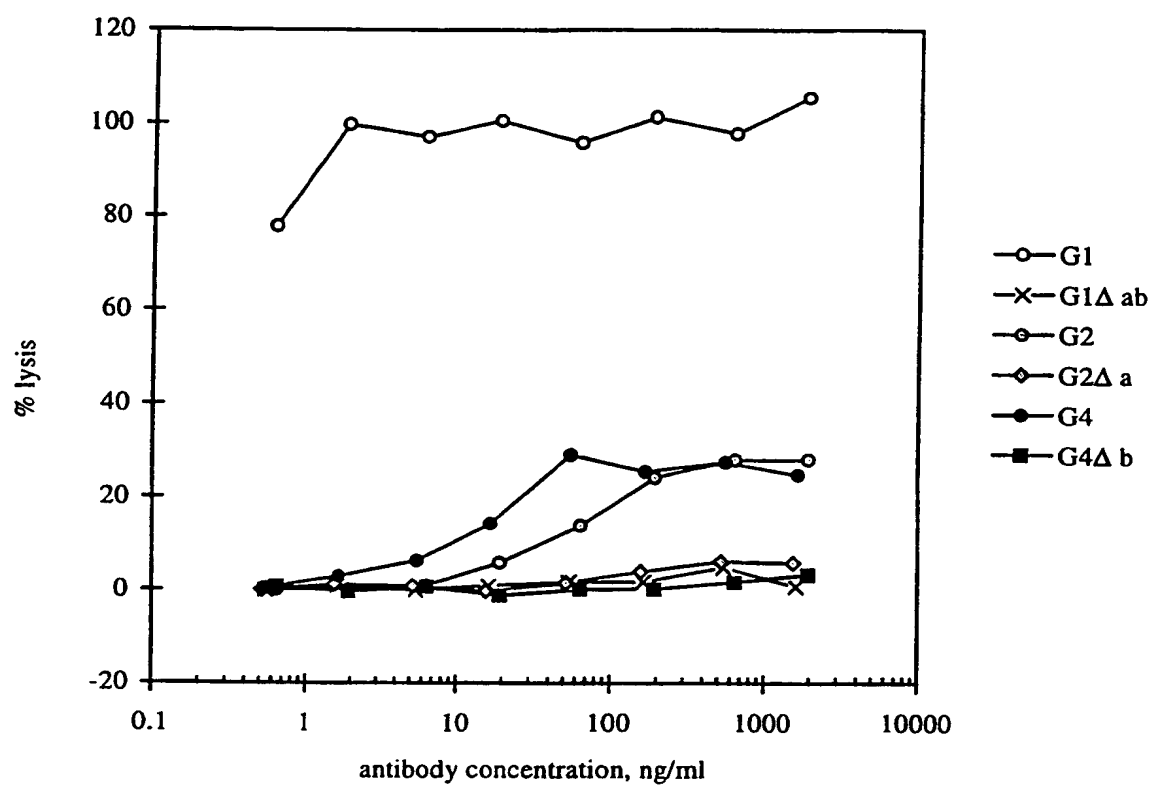


Figure 10b

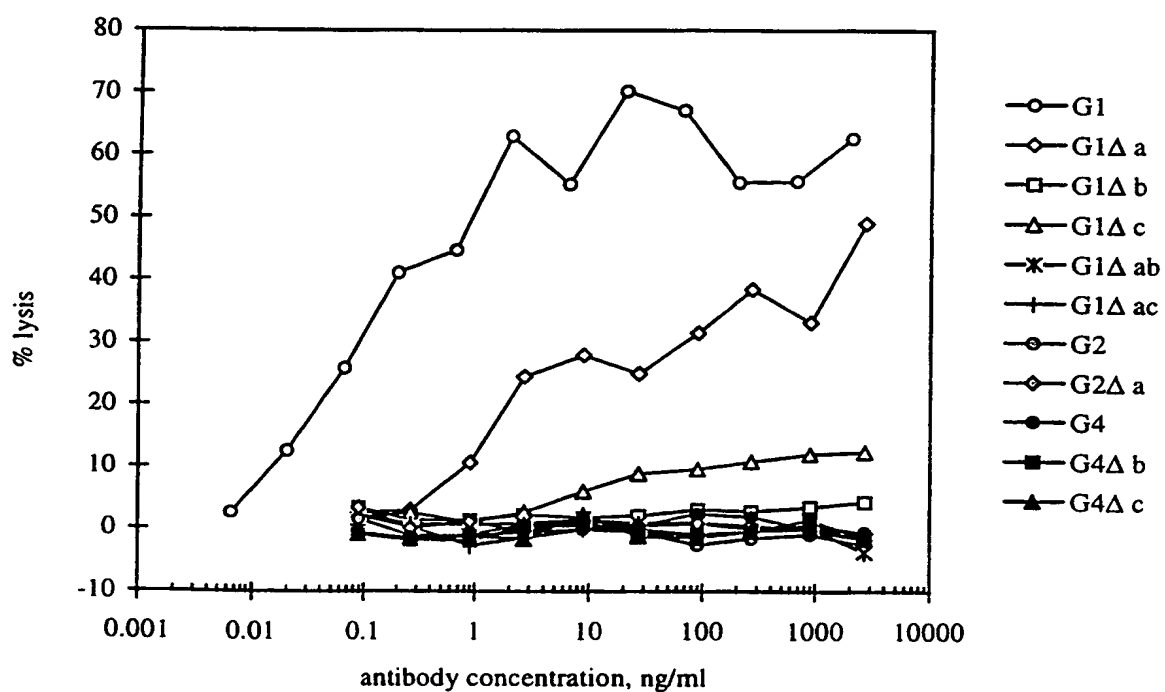


Figure 11a

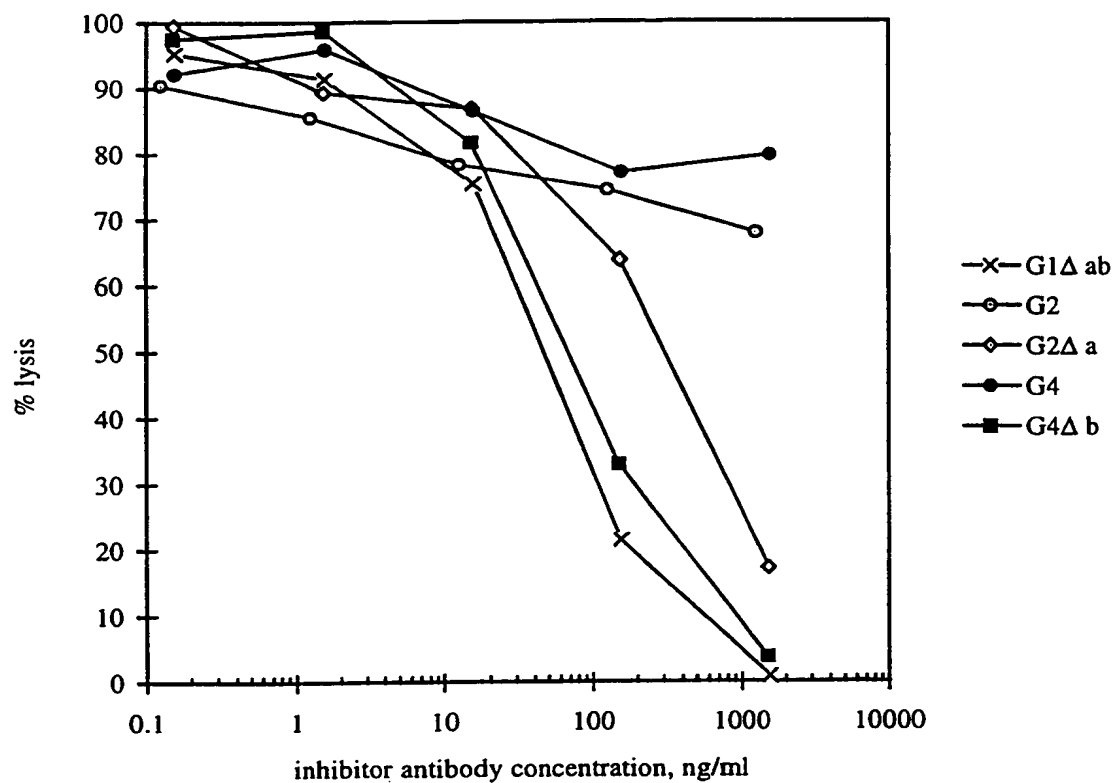


Figure 11b

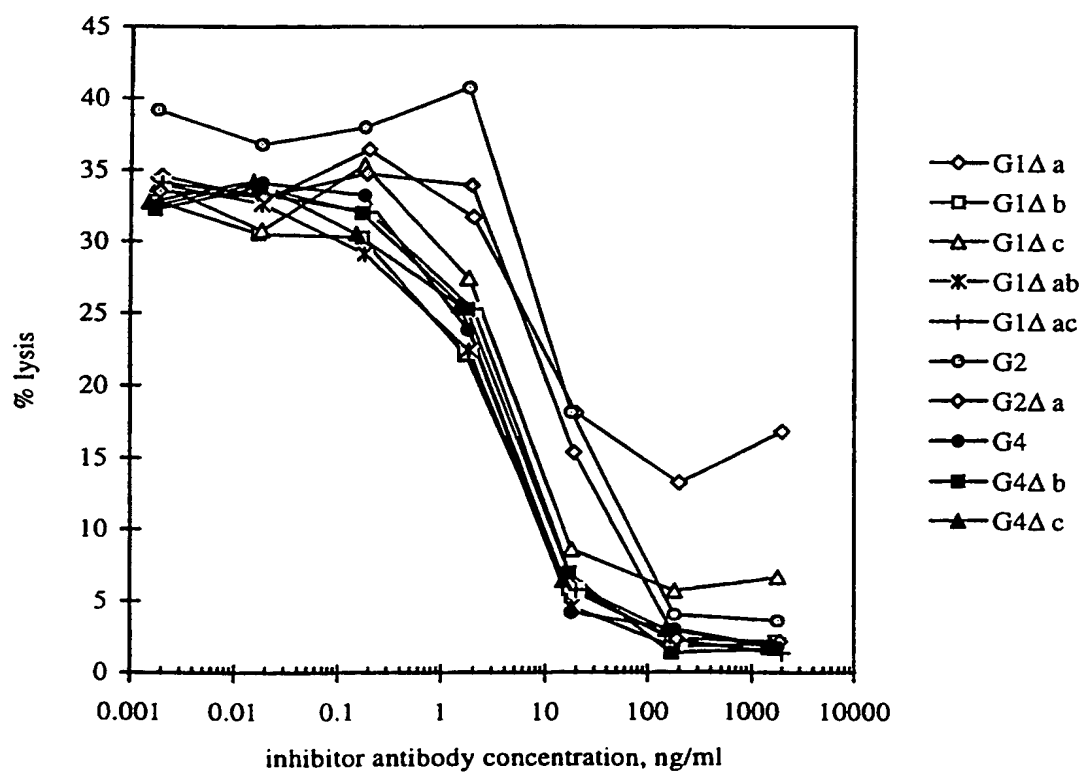


Figure 12

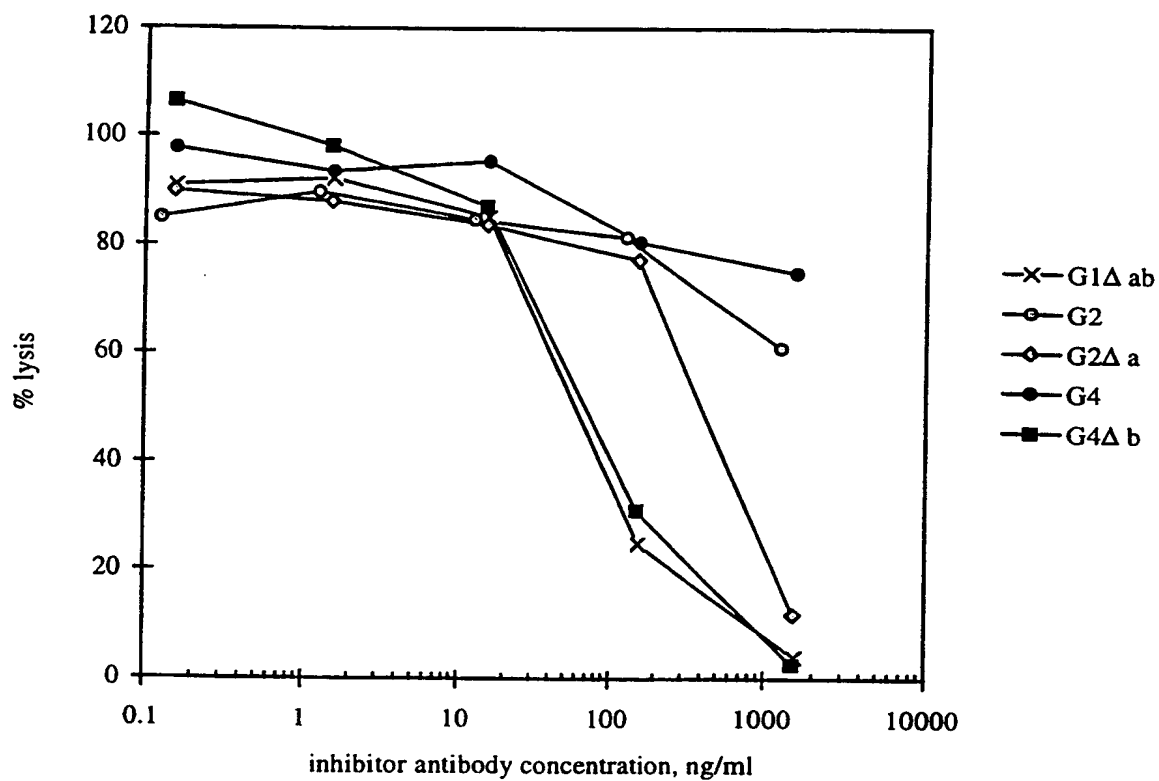


Figure 13q

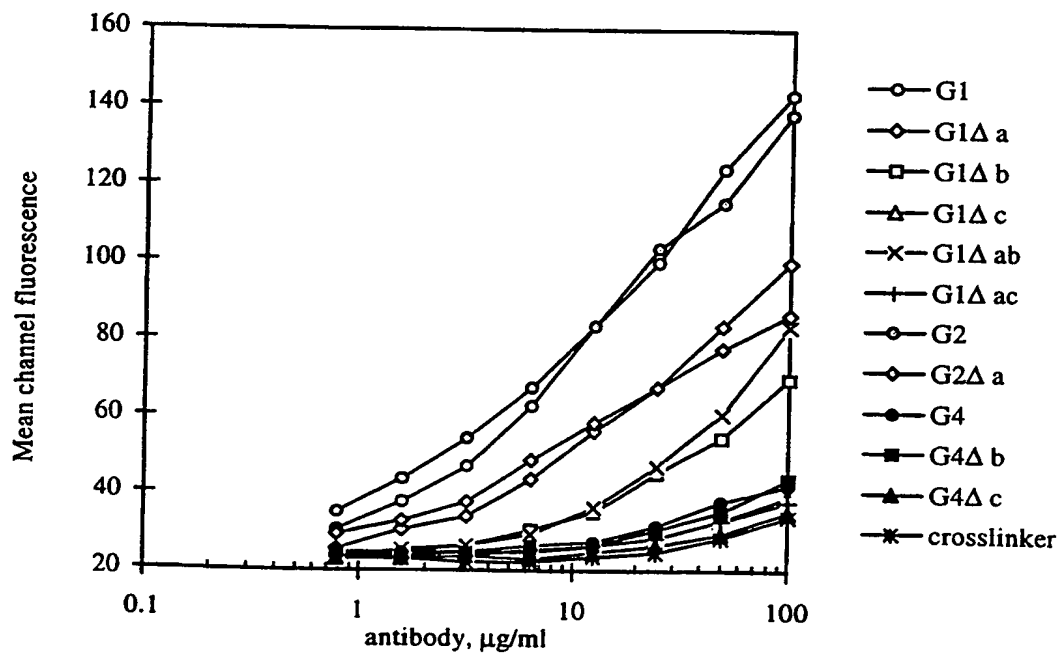


Figure 13b

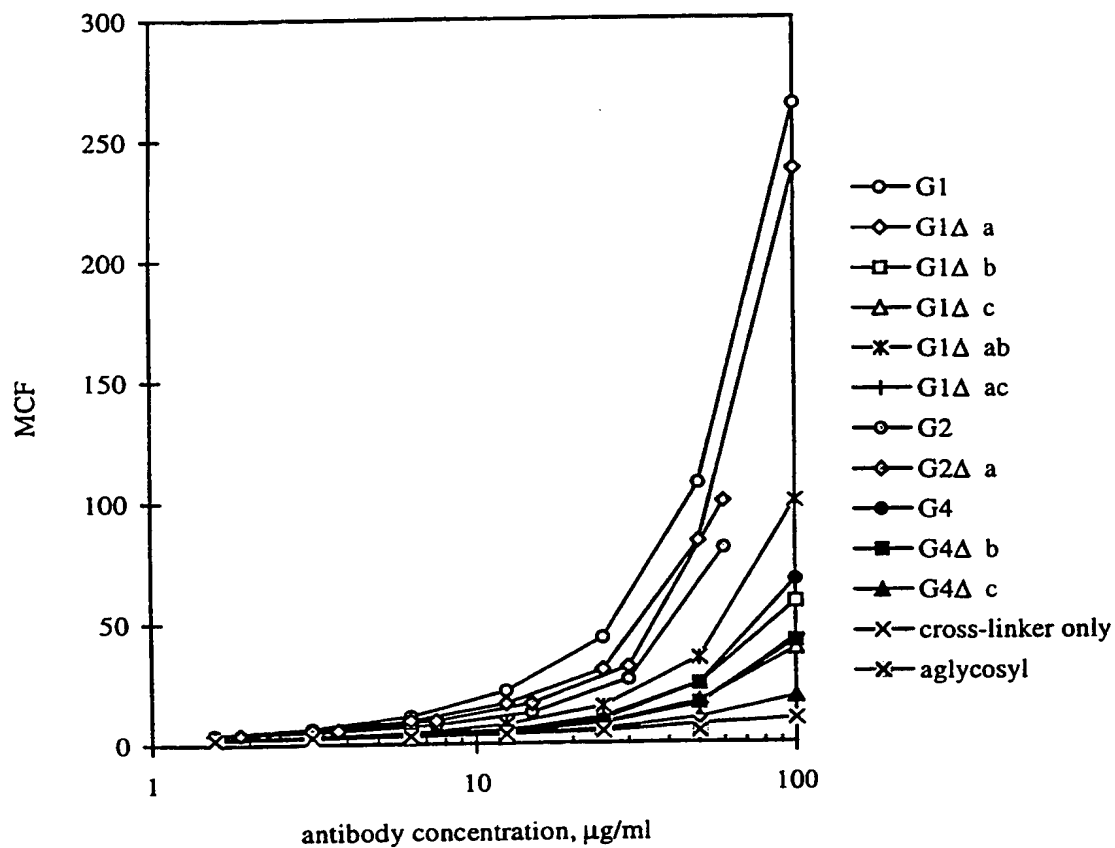


Figure 14a

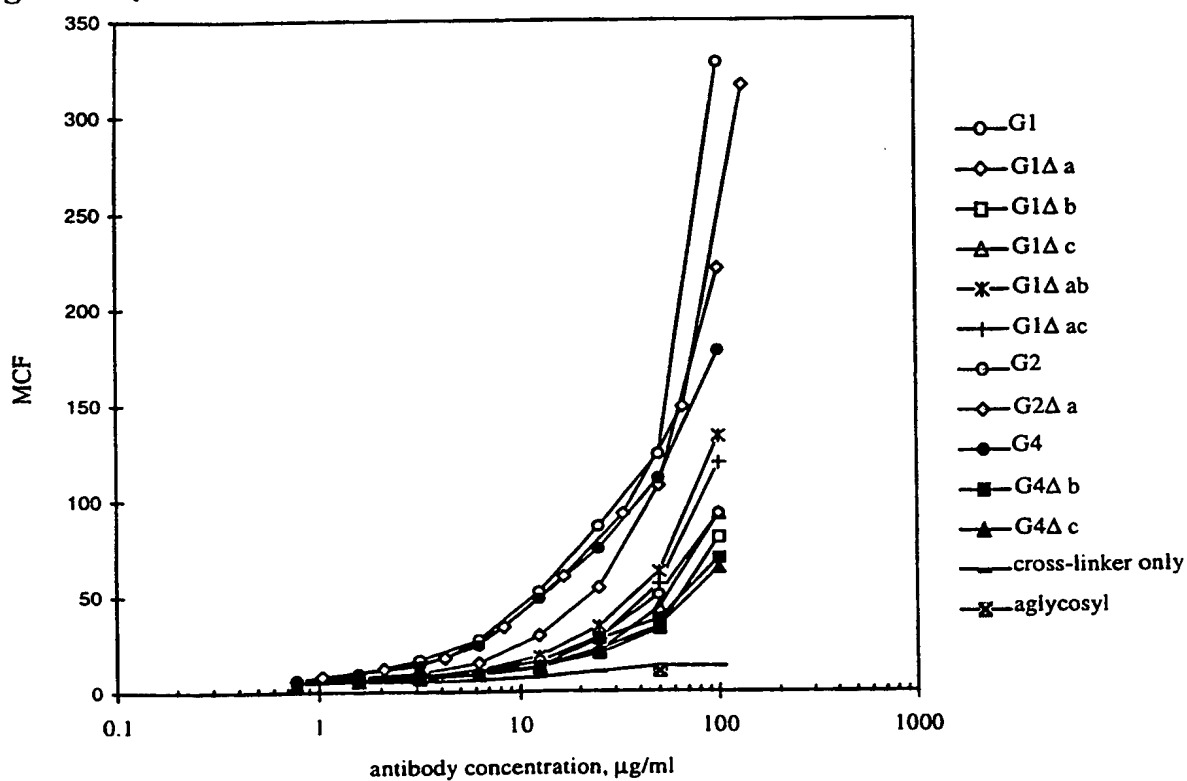


Figure 14b

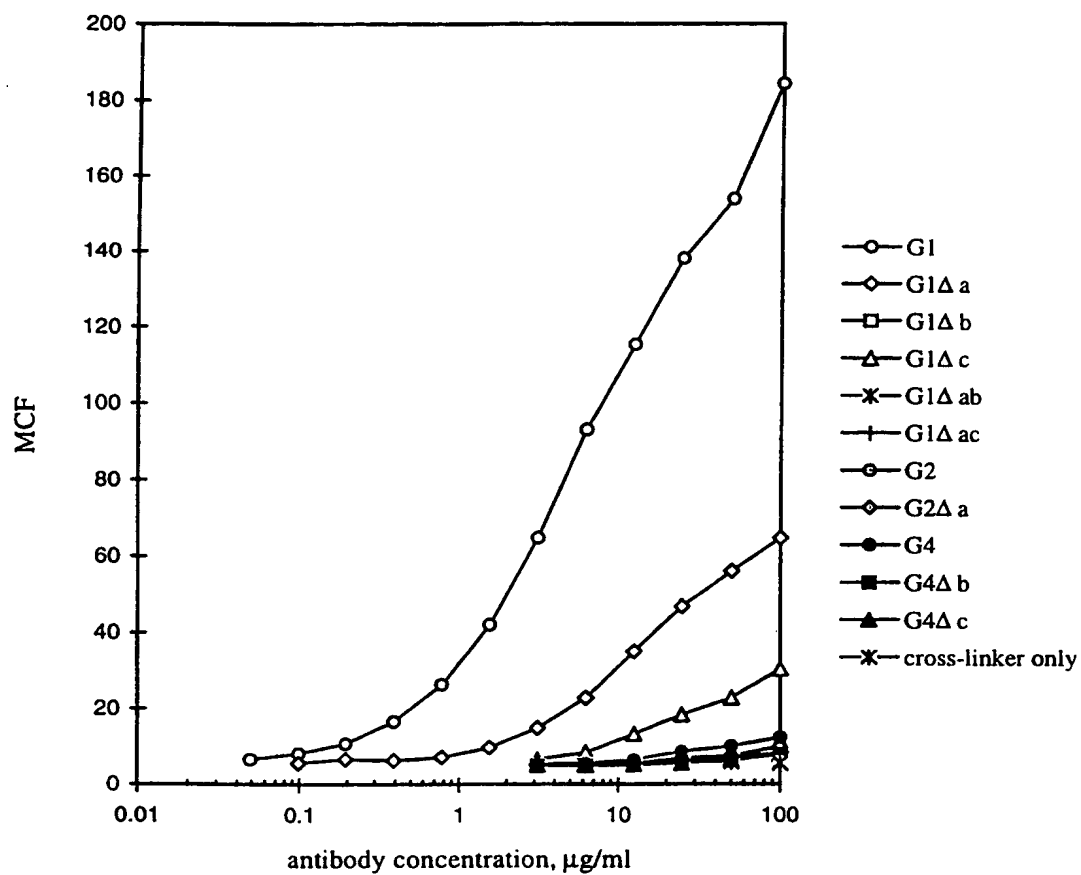


Figure 14c

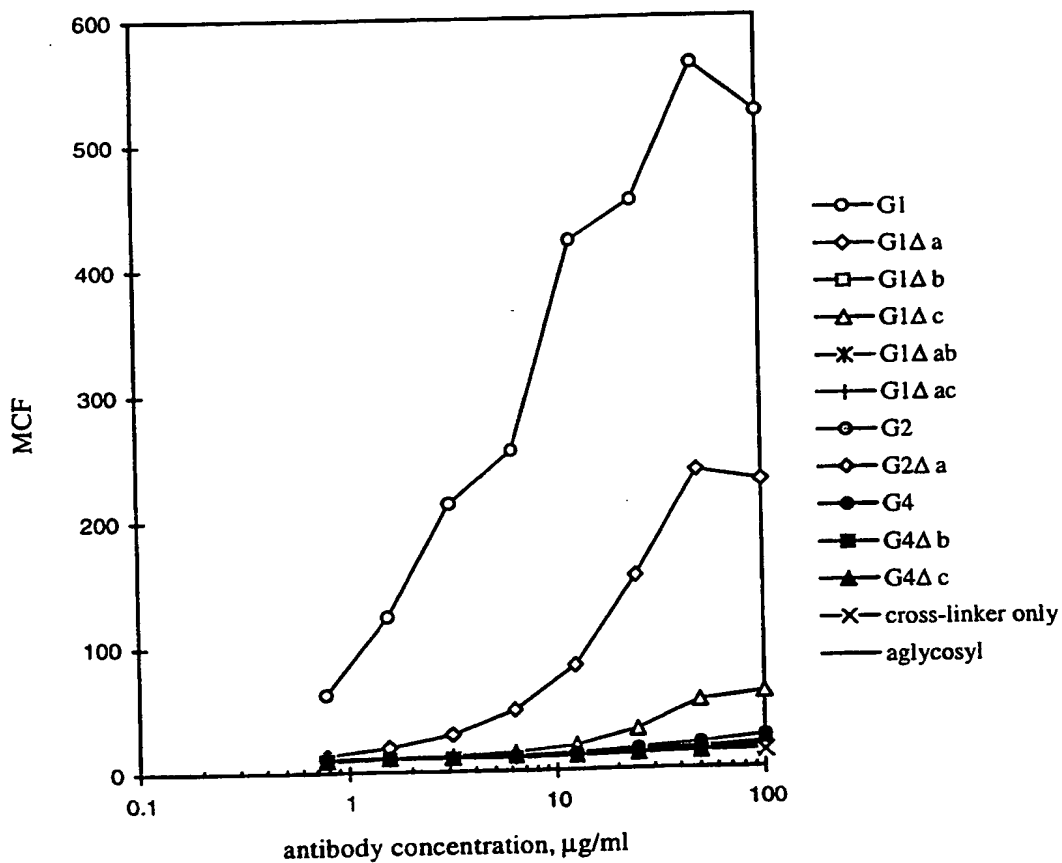


Figure 15

Table 1

A comparison of the mutations made to the wildtype G1, G2 and G4 antibodies

Antibody	233	234	235	236	327	330	331
G1	E	L	L	G	A	A	P
G1Δa	E	L	L	G	G	S	S
G1Δb	P	V	A	-	A	A	P
G1Δc	P	V	A	G	A	A	P
G1Δab	P	V	A	-	G	S	S
G1Δac	P	V	A	G	G	S	S
G2	P	V	A	-	G	A	P
G2Δa	P	V	A	-	G	S	S
G4	E	F	L	G	G	S	S
G4Δb	P	V	A	-	G	S	S
G4Δc	P	V	A	G	G	S	S

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Figure 16

Assay system	Series	G1	G1a	G1b	G1c	G1ab	G1ac	G2	G2a	G4	G4b	G4c
FcγRI: rosetting	F	+++	+++	-	-	-	-	-	-	++	-	-
FcγRI: fluorescent staining	C/F	+++	+++	-	-/+	-	-/+	-	-	++	-	-/+
FcγRIIa H/H: fluorescent staining	C/F	+++	++	+	-/+	+	-/+	+++	++	-/+	-/+	-
FcγRIIa R/R: fluorescent staining	F	+++	+++	+/+	+/+	+	+/+	++	++	+/+	+/+	-/+
FcγRIIb*: fluorescent staining	F	+++	+++	+	+	++	++	+	+++	+++	+	+
FcγRIIb NA1: rosetting	F	++	+	+/+	+/+	-/+	-/+	+/+				
FcγRIIb NA1: fluor. staining	F	+++	++	-	+	-	-	-	-	+/+	-	-
FcγRIIb NA2: fluor. staining	F	+++	++	-	+	-	-	-	-	+/+	-	-
FcγRI/II: chemiluminescence	F	+++	++	-	+/+	-	-/+	-	-	+	-	-/+
Complement lysis	C	+++	+/+	-/+	-/+	-/+	-/+	++	-	-	-	-
ADCC	C	+++	++	+/+	+	-	-/+	+	+/+	+	-	-/+
ADCC	F	++++	+++	+	++	-	-	+/+	-/+	+/+	-	-

Inhibition of G1 activity in assay	Series	G1	G1a	G1b	G1c	G1ab	G1ac	G2	G2a	G4	G4b	G4c
FcγRI: rosetting	F								+		+	
FcγRI/II: chemiluminescence	F			+++	++	+++	+++	+	+++		+++	+++
Complement lysis	C								+			
ADCC	F		-	++	+	++	++	-	+	-	++	++

Series CAMPATH-1 (C) or Fcγ-1 (F) antibodies tested
 +++++, +++, ++ or + relative level of activity in assay
 +/- low level of activity which is significantly above background
 -/+ low level of activity which is slightly above background
 - no activity above background
 blank not tested

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	233	234	252	253	254	236	235	237	310	318	327	
G1	APFLLGDP	SVTL	FP	KPKD	TLMI	ER	TP	EV	TC	VV	VD	VH
G2	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G3	APFLLGDP	SVTL	FP	KPKD	TLMI	ER	TP	EV	TC	VV	VD	VH
G4	APFLLGDP	SVTL	FP	KPKD	TLMI	ER	TP	EV	TC	VV	VD	VH
G1A	APFLLGDP	SVTL	FP	KPKD	TLMI	ER	TP	EV	TC	VV	VD	VH
G1Ab	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G1Ac	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G1Ab	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G1Ac	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G2A	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G4Ab	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV
G4Ac	APFVA	OP	SV	TL	FP	KPKD	TLMI	ER	TP	EV	TC	VV